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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/768,592	01/25/2001	Alan D. Berenbaum	Berenbaum 11	3560
7590 07/16/2004			EXAMINER	
MANELLI DENISON & SELTER PLLC			MURPHY, RHONDA L	
7th Floor 2000 M Street, N.W. Washington, DC 20036-3307			ART UNIT	PAPER NUMBER
			2667	
			DATE MAILED: 07/16/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/768,592	BERENBAUM, ALAN D.				
Office Action Summary	Examiner	Art Unit				
	Rhonda L Murphy	2667				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin only within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	¹					
,	s action is non-final.					
•••	· · · · · · · · · · · · · · · · · · ·					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-22 is/are pending in the application	٦.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>18-22</u> is/are allowed.						
6)⊠ Claim(s) <u>1-17</u> is/are rejected.						
7) Claim(s) is/are objected to.	an ala attau na mainana ant					
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examin	er.					
10)⊠ The drawing(s) filed on 26 June 2001 is/are:	a) $igtie$ accepted or b) $igsqcup$ objected to	by the Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the corre						
11) The oath or declaration is objected to by the E	Examiner. Note the attached Office	e Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary Paper No(s)/Mail D					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06) Paper No(s)/Mail Date 		Patent Application (PTO-152)				

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informality: The data period detector on lines 8 and 9 of page 8 is designated as item "103" and is designated as "109" elsewhere in the specification and drawings. It is suggested to change these items in the specification to read "109".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Chapman et al. (US 6,233,245).

Regarding claim 1, Chapman discloses an automatic adaptive voice/data device, comprising a high priority transmission queue (col. 2, lines 16-17); a low priority transmission queue (col. 2, lines 16-17); a data rate detector to detect a data rate of a data stream from a particular source, and a periodicity detector to detect a periodicity

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between data packets from said particular source (col. 5, lines 62-65; data type determination 500 represents both the data rate detector and the periodicity detector); wherein data packets are provided to said high priority transmission queue and said low priority transmission queue based on their data rate and periodicity (col. 6, lines 9-20). Regarding claim 2, Chapman discloses data packets having a data rate and periodicity each within a particular range associated with voice data are passed to said high priority transmission queue (col. 5, lines 65-67, col. 6, lines 1-20).

Regarding claim 3, Chapman discloses an automatic, adaptive voice/data device that is an Ethernet compliant device (col. 2, lines 10-11).

Regarding claim 4, Chapman discloses data flow identification based upon at least one of a source address and a destination address of said data flow (col. 3, lines 26-29 and col. 6, lines 5-9).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 5 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chapman et al. (US 6,233,245) in view of Haddock et al. (US 2004/0081093).

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Regarding claims 5 - 7, 13 - 15, Chapman discloses an automatic, adaptive voice/data device according to the rejection of claims 1-4 as described above, and claim 12 below.

Chapman does not explicitly disclose a source address and destination address as a media access control address, internet protocol address, or transport control protocol.

However, the above-mentioned claim limitations are taught by Haddock.

Haddock teaches identification of data streams based on media access control (MAC),

Internet protocol (IP) and transmission control protocol (TCP) source and destination

addresses (page 3, paragraph 35).

In view of this, having the system of Chapman and then given the teachings of Haddock, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Chapman, by utilizing the MAC, IP, and TCP source and destination addresses taught by Haddock, so as to identify data streams based upon various OSI layers.

Regarding claim 8, Chapman identifies a data flow from a particular source (col. 2, lines 18-21); determining a data rate of said data flow (col. 5, lines 62-65; col. 6, lines 1-20); determining a periodicity of a receipt of packets in said data flow (col. 5, lines 62-65; col. 6, lines 1-20).

Chapman does not explicitly disclose the following limitation taught by Haddock: assigning a particular Quality of Service to said packets based on said data rate and periodicity (page 2, paragraph 13).

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In view of this, having the system of Chapman and then given the teachings of Haddock, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Chapman, by incorporating a Quality of Service to the packets, so as to provide the most efficient and jitter reducing method of optimizing data flow.

Regarding claim 9, Chapman discloses data packets having a data rate and periodicity associated with a voice stream, as stated in the rejection of claim 2.

However, Chapman fails to disclose the step of assigning packets to a particular Quality of Service having a data rate and periodicity associated with a voice stream, which is taught by Haddock (page 2, paragraph 22; and page 4, paragraph 48).

In view of this, having the system of Chapman and then given the teachings of Haddock, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Chapman, by incorporating a step of assigning packets to a particular Quality of Service, so as to provide the most efficient and jitter reducing method of optimizing data flow.

Regarding claim 10 - 12, the combined teachings of Chapman and Haddock discloses all aspects of the claimed invention set forth in the above rejections. Haddock further discloses tagging a packet within said data flow, forwarding the tagged packet within the data flow according to a particular Quality of Service, and identifying data flow from particular source according to a source address and a destination address. (page 2, paragraph 29).

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Regarding claim 16, the combined teachings of Chapman and Haddock discloses all aspects of the claimed invention set forth in the above rejections. Haddock further discloses tagging a packet within a data flow according to the length of the packet (page 5, paragraph 61).

Regarding claim 17, the combined teachings of Chapman and Haddock discloses all aspects of the claimed invention set forth in the above rejections. Haddock further discloses calculating a time difference between a last most recent packet arrival and a current clock value (page 5, paragraph 56).

Allowable Subject Matter

6. Claims 18-22 are allowed. Prior art does not teach all of the limitations cited in claims 18-22.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rhonda L Murphy whose telephone number is (703) 308-9557. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (703) 305-4798. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

rlm

RICKY NGO PRIMARY EXAMINER